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PORTABLE REINFORCING BAR CORROSION DETECTION END

NIPPON STEEL CORP
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Abstract: PURPOSE: To speedily and securely measure an actual structure by making reinforcing bars in concrete conductive from reinforcing bar exposed parts.

CONSTITUTION: A rotary cap 27 is rotated along with an internal cylinder 23 and a liquid feed valve port 32 is linked with a communicating hole 25 to feed liquid prior to measuring operation. Then, a discharge opening/closing valve 18 is opened and then an electrolyte from a liquid and air feeding device is fed into an external cylinder from a common-use pipe 7 through a hose 14. The electrolyte 50 is charged in the internal cylinder 23 from the common-use pipe 7 through the communicating hole 25 and liquid feeding valve port 32 and also charged in the external cylinder 4 at the same time. Then when the discharge opening/closing valve 18 is closed the moment the electrolyte is charged to a proper amount, it leaks out of a liquid permeable contacting plate 30 to the surface 33a of the concrete 33 by an amount determined principally by the permeability of the contacting plate 30. Then, electrochemical characteristic values are measured on a three- electrode type monitor 11 wherein a matching electrode 5, a counter electrode 6, and a test electrode 35 are connected electrically.

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